

REMARKS

Claims 1-3, 5-7, and 19-21 are pending in this application. By this Amendment, the specification is amended, claims 13-18 and 22-24 are canceled, and claims 2, 3, 6, 7, and 19-21 are amended. No new matter is added.

The courtesies extended to Applicant's representative by Examiner Craig in the telephone interview held June 10, 2005, are appreciated. The reasons presented at the interview as warranting favorable action are incorporated into the remarks below and constitute Applicant's record of the interview.

I. Allowable Subject Matter

Applicant appreciates the indication that claims 1-3, 5-7, and 19-21 are allowed.

II. Claim Amendments

By this Amendment, claims 19-21 are amended to address various informalities.

In addition, claims 2, 3, 6, and 7 are amended to replace references to equations with the actual equations referenced. Equation variables that are not expressly defined in these particular claims are defined throughout the instant specification and original claim 1. For example, the variable C is defined at p. 3 of the instant specification, and the variable

Γ_n^{Coul} is defined at p. 7 of the specification.

These claim amendments are not narrowing amendments and do not introduce new matter.

III. Specification Amendments

By this Amendment, the specification is amended to add paragraph headings and to replace the Abstract.

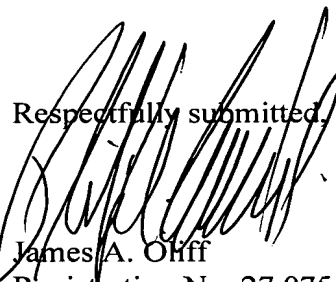
IV. Rejections

The Office Action rejects claims 13-18 and 22-24 under 35 U.S.C. §112, second paragraph, and under 35 U.S.C. §102(b) as being anticipated by Tsukada (U.S. Patent No. 5,266,825). By this Amendment, claims 13-18 and 22-24 are canceled, thus rendering the rejections moot. Reconsideration and withdrawal of the rejections are respectfully requested.

V. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-3, 5-7, and 19-21 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,

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JAO:PAC

Attachment:
Abstract

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ABSTRACT OF THE DISCLOSURE

An automated simulation method for determining the enhanced generation-recombination rate due to trap-to-band tunnelling in a semiconductor device using the Dirac coulombic tunnelling integral and to a simulator for carrying out the method are disclosed.